build for life

Architectural Aluminium Systems
Finishes and Facilities
Ground Floor Treatments

Kawneer’s comprehensive range of architectural aluminium systems are suitable for a variety of applications from commercial entrances to retail outlets. Kawneer designs, engineers and manufactures complete door systems and offers a lifetime warranty on its welded door corner construction. A Thermal framing system offers design flexibility and is designed to suite with Kawneer’s curtain wall, door and window systems.

Window Systems

Combining high performance with architectural flexibility Kawneer’s range of window systems are designed to suite with Kawneer’s curtain walling, framing and doors and are suitable for commercial new build and residential projects in all market sectors. Each series is designed for insertion into punched openings, ribbon windows, coupled window wall designs or as inserts into curtain wall or framing systems. The range comprises of Casement, Pivot, Titturn, Top Swing, Horizontal and Vertical Sliding windows and includes a series of dual coloured, high thermal performance windows.

Curtain Wall Systems

Engineered and tested to meet rigorous performance criteria, Kawneer offers an extensive fully integrated range of curtain wall products that can be customised to meet specific project requirements. Designed to suite with Kawneer’s window and door products they allow flexibility of design, outstanding performance and ease of installation.

Technical Assistance

Kawneer’s regionally based team of Architectural Sales Managers are able to provide product information and support and can be contacted through the Head Office at Runcorn. Information on Kawneer’s extensive range of Curtain Wall, Window and Ground Floor Treatment solutions can also be obtained from our Head Office at Runcorn.
Introduction
Kawneer Permacover and Permacover Plus are high quality polyester powder paint finishes, offering over 130 standard and 31 metallic paint colours.
Kawneer’s world leadership in architectural aluminium systems has been achieved through an insistence on product quality and performance. Kawneer’s in-house paint plant gives complete control over paint quality on all Kawneer profiles.
Permacover and Permacover Plus solid and metallic paint finishes provide outstanding resistance to environmental conditions.

Application
Kawneer Permacover and Permacover Plus are ideal coatings for the full range of Kawneer architectural aluminium systems.
All aluminium profiles are chemically pre-treated prior to the application of coatings, which are fully heat-cured to produce the final protective coating.
Permacover has a matt surface appearance; it is also available in gloss and satin finish for both solid and metallic colours.

Authorities
Kawneer Permacover and Permacover Plus comply with the requirements of

- **BS 6496: 1984**
  Specification for powder organic coatings to aluminium alloys for external architectural purposes
- **ISO 9001: 2000**
  Quality Management System
- **BBA 88/2028**
  The Syntha Pulvin System

Guarantees
A 15 year gloss and 25 year matt and metallic for Permacover. Guarantees are subject to application and Kawneer acceptance in marine, industrial, swimming pools or other aggressive atmospheres.

Permacover Paint Finish

Performance
Kawneer Permacover and Permacover Plus are durable, flexible, and impact resistant coatings and are applied to the aluminium profiles before fabrication.
The success of their performance lies in the control of the application process operated by Kawneer, to apply a single coating which provides greater protection than any alternative wet-spray, dip or electrophoretic paint system. By using polyester powders containing high quality pigments and resin systems proven by extensive exposure tests. Both Permacover and Permacover Plus provide impact and abrasion resistance with colour uniformity and an extensive colour range.

Technical Assistance
Technical advice relating to any aspect of Kawneer Permacover and Permacover Plus performance, and colour samples can be obtained from our Head Office at Runcorn.

Cleaning and Maintenance
Under normal environmental conditions the coatings have a life expectancy of up to 30 years, when cleaned and maintained in accordance with Kawneer’s published instructions, available on request from the Technical Services Department at Runcorn.

Gyle Square, Edinburgh
Michael Laird Architects
Charles Henshaw & Sons Ltd
Introduction

Kawneer Permanodic is a range of subtle co-ordinated colours which have been researched and developed for architectural systems. The performance finish of all Kawneer products is assured as a result of a single source responsibility.

Permanodic is a well tried colour anodising process, proven in accelerated laboratory tests, extensive field trials and contract experience, which gives architects and specifiers product confidence.

Colours

- **Permanodic** is available in five standard colour tones - Natural, Silver Grey, Dark Umber, Black and Bronze.
- **Permanodic II** is available as a steel blue-grey colour.
- **Permanodic C** is available in a range of blues, reds, turquoises and greens.

Permanodic

Application

Various Kawneer Permanodic colour finishes are available on all Kawneer aluminium systems and offer many exciting possibilities in colour contrast and harmony.

Permanodic colours are achieved by colouring the anodic film resulting in a stable attractive finish with rich colour tones. The aluminium is immersed in specific electrolytes and subjected to stringent process controls, to produce a hard coating which forms an extremely durable protective surface which is fade free.

Permanodic II colour is achieved by interference colouring produced by enlarging the anodic pores and depositing nickel metal in the base. By this method a steel blue-grey colour is produced which is fade free.

Permanodic C is a combination method of over dyeing Permanodic bronze shades with lightfast organic dye stuffs which produce a range of subtle colours that are fade resistant.

Technical Assistance

Technical advice relating to any aspect of Kawneer Permanodic performance and colour samples can be obtained from our Head Office at Runcorn.

Cleaning and Maintenance

Under normal environmental conditions the coatings have a life expectancy of up to 30 years, when cleaned and maintained in accordance with Kawneer’s published instructions, available on request from the Technical Services Department at Runcorn.

Authorities

- **BS 3987: 1991**
  Anodic oxide coatings on wrought aluminium for external architectural purposes
- **ISO 9001: 2000**
  Quality Management System

Warranty

Subject to compliance with Kawneer’s requirements, a 25 year finishes warranty can be obtained from our Head Office at Runcorn.

Quality Control

Whilst Kawneer maintain documented quality procedures for all materials, treated and finished according to the Permanodic process, variations in colour consistency are inherent in all colour processes. Production materials are measured for compliance with top and bottom limit colour samples.
Permacover/Permacover Plus Finish

Scope

All significant aluminium surfaces shall be finished in Kawneer Permacover/Permacover Plus polyester powder paint.

Finishes

Kawneer Permacover/Permacover Plus paint finish shall be applied by a full 12 stage chromate conversion coating to achieve maximum exterior durability; the finished coating shall be covered by a 15 year gloss or a 25 year matt guarantee including adhesion.

Specification

Permanodic Finish

Scope

All significant aluminium surfaces shall be anodised in Kawneer Permanodic.

Finishes

Kawneer Permanodic colour shall be obtained by giving the complete aluminium profiles a caustic etch followed by anodic treatment to produce a high density aluminium oxide coating. The aluminium oxide shall have a minimum coating thickness of 25 microns.